## Index of Claims

## \*09811146\*

| Application No. | Applicant(s)   | ···· |
|-----------------|----------------|------|
| 09/811,146      | SORIN, WAYNE V |      |
| Examiner        | Art Unit       |      |
| Brian M. Healy  | 2874           |      |

| 7 | Rejected |
|---|----------|
| 1 | Allowed  |

| - | (Through numeral)<br>Canc Iled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|          |          |        | _        |          |          |          | ,        |              | _            |                 |
|----------|----------|--------|----------|----------|----------|----------|----------|--------------|--------------|-----------------|
| Cla      | aim      | Date   |          |          |          |          |          |              |              |                 |
| Final    | Original | 2/6/04 |          |          |          |          |          |              |              |                 |
| 1        | 1        | Ξ      | $\vdash$ |          |          |          |          | $\vdash$     |              |                 |
| 2        | 2        | =      |          | Г        |          |          |          |              |              |                 |
| 3        | 2        | =      |          | Г        |          |          |          | $\vdash$     |              |                 |
| 4        | 4        | =      |          |          |          |          |          | Г            |              |                 |
| 5        | 5        | =      |          | Г        |          |          |          | Г            |              |                 |
| 6        | 6        | =      |          |          |          |          |          |              |              |                 |
| 7        | 7        | =      |          |          |          |          | Г        |              |              |                 |
| 8        | 8        | =      |          |          |          |          |          |              |              |                 |
| 9        | 9        | =      |          |          |          |          |          |              |              |                 |
| 10       | 10       | =      |          |          |          |          |          |              |              |                 |
| 11       | 11       | =      |          |          |          |          |          |              |              |                 |
| 12       | 12<br>13 | =      |          |          |          |          |          |              |              |                 |
| 12<br>13 | 13       | =      |          |          |          |          |          |              |              |                 |
| 14       | 14       | =      |          |          |          |          |          |              |              |                 |
| 15       | 15       | =      |          |          |          |          |          |              | L.           |                 |
| 16       | 16       | =      |          |          |          |          |          |              |              |                 |
| 17       | 17       | =      |          |          | L        |          |          | _            |              |                 |
| 18       | 18       | =      |          |          |          |          | L        | L            |              |                 |
| 19       | 19       | =      |          |          |          |          |          |              |              |                 |
| 20       | 20       | =      |          | L        |          |          |          | <u> </u>     |              |                 |
| 21       | 21       | =      |          |          |          |          |          |              |              |                 |
| 22       | 22       | =      |          |          |          |          | <u> </u> |              |              | Ш               |
| 23       | 23       | =      |          |          |          |          |          |              |              | Ш               |
| 24       | 24       | =      |          |          |          |          |          |              |              | Ш               |
| 25       | 25       | =      |          |          |          |          |          | <u> </u>     |              |                 |
| 26       | 26       | 르      |          |          |          |          | <u> </u> |              |              | Ш               |
| 27       | 27       | =      |          |          |          | _        |          |              |              |                 |
| 28       | 28       | =      |          |          | _        | L        |          | <u> </u>     |              | Щ               |
| 29       | 29       | =      |          | <u>L</u> | _        | <u> </u> | _        |              |              |                 |
| 30       | 30       | =      |          | <u>_</u> |          | _        | L        | <u> </u>     |              |                 |
| 31       | 31       | =      |          |          | L        | _        |          | _            |              | Щ               |
| 32       | 32       | =      |          | L        | _        |          |          | _            |              | Щ               |
| 33       | 33       | =      |          | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | <u> — </u>   | <u> </u>     | Щ               |
| 34       | 34       | =      | <u> </u> | <u> </u> | H        | <u> </u> | <u> </u> | <del> </del> | <u> </u>     | Н               |
| 35       | 35       | =      | _        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | _            | $\vdash\vdash$  |
| 36       | 36       | =      |          | ⊢        | $\vdash$ | $\vdash$ | _        | $\vdash$     |              | Н               |
| 37<br>38 | 37       | =      | <u> </u> | $\vdash$ | $\vdash$ | -        | $\vdash$ | $\vdash$     |              | $\dashv$        |
| 39       | 38<br>39 | =      | <u> </u> | -        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | <u> </u>     | $\vdash \vdash$ |
|          |          | =      | <u> </u> | $\vdash$ | ⊢        | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$     | Н               |
| 40       | 40       | E      | -        | $\vdash$ | $\vdash$ | $\vdash$ | -        | $\vdash$     | -            | $\dashv$        |
| 42       | 42       | =      | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$     | Н               |
| 43       | 43       | =      |          | ├        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | <u> </u>     | $\vdash$        |
| 44       | 44       | =      |          | $\vdash$ | $\vdash$ | $\vdash$ | -        | $\vdash$     | $\vdash$     | $\vdash \vdash$ |
| 45       | 45       | =      |          | $\vdash$ | $\vdash$ | _        | $\vdash$ | ├-           | <del> </del> | $\dashv$        |
| 46       | 46       | =      | _        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | <u> </u>     | $\dashv$        |
| 47       | 47       | Ē      | $\vdash$ | $\vdash$ |          | $\vdash$ | $\vdash$ | $\vdash$     | _            | $\vdash \vdash$ |
| 48       | 48       | =      |          | $\vdash$ |          |          |          |              |              | $\dashv$        |
| 49       | 49       | =      | _        | Н        | Н        | Н        | Н        | Н            |              | $\dashv$        |
| 50       | 50       | Ē      | _        | $\vdash$ | $\vdash$ | Н        | $\vdash$ | $\vdash$     | Н            | $\vdash \vdash$ |

| Cla      | aim            | Date     |          |  |               |   |          |  |              |  |
|----------|----------------|----------|----------|--|---------------|---|----------|--|--------------|--|
|          |                |          |          |  |               |   |          |  |              |  |
| Final    | Original       | 2/6/04   |          |  |               |   |          |  |              |  |
| 51       | 51             | =        |          |  |               |   |          |  |              |  |
| 52       | 52             | = .      |          |  |               |   |          |  |              |  |
| 52<br>53 | 52<br>53       | =        |          |  | _             |   |          | $\vdash$   | Г            |  |
| 54       | 54             | =        |          | $\vdash$   | Н             | Н   | $\vdash$ | _  |              | _  |
| 55       | 55             | Ξ        |          | $\vdash$   | $\vdash$      | -   | _        | <del>                                     </del> | H            | _  |
| 56       | 56             | =        |          |  | -             | -   | _        | -  | H            | -  |
| 57       | 57             | =        | _        |  | -             | $\vdash$  |          | ⊢  | $\vdash$     |  |
| 57       | 51             | _        | _        | -  | $\vdash$      | _   | _        | ┝  |              | _  |
| 58       | 58             | =        | _        | ⊢  | $\vdash$      |   | _        | ├-   | -            | _  |
| 59       | 59             | =        |          | <del> </del>                                     | -             |   | _        | _  | $\vdash$     |  |
| 60       | 60             | =        |          | <u> </u>   | _             |   | _        | <u> </u>   | L.           |  |
| 61       | 61             | =        | _        | _  | ļ             |   |          | <u> </u>   | Ш            | _  |
| 62       | 62             | =        | <u> </u> | <u> </u>   | _             | $\vdash$  | _        | <u> </u>   | <u> </u>     | <u> </u>   |
| 63       | 63             | =        | <u> </u> | L_   | Щ             | $ldsymbol{le}}}}}}$ | L_       | _  | Ш            |  |
| 64       | 64             | =        |          |  | Щ             |   |          | L_   | L            |  |
| 65       | 65             | =        |          |  |               |   |          |  |              |  |
|          | 66             |          |          |  |               |   |          |  |              |  |
|          | 67             |          |          |  |               |   |          |  |              |  |
|          | 68             |          |          |  |               |   |          |  |              |  |
|          | 69             |          |          |  |               |   |          |  |              |  |
|          | 70             |          |          |  |               |   |          |  |              |  |
|          | 71             |          |          |  |               |   |          |  |              |  |
|          | 72             |          |          |  |               |   |          |  |              |  |
|          | 72<br>73       |          |          |  |               |   |          |  |              |  |
|          | 74<br>75<br>76 |          |          |  |               |   |          |  |              |  |
|          | 75             |          |          |  | П             |   |          |  |              |  |
|          | 76             |          |          |  |               |   |          |  |              |  |
|          | 77<br>78       |          |          |  |               |   |          |  |              |  |
|          | 78             |          |          |  |               |   |          |  |              |  |
|          | 79             |          |          |  |               |   |          |  |              |  |
|          | 80             |          | -        |  |               |   |          |  |              |  |
|          | 81             |          |          |  | $\overline{}$ |   | Т        |  |              |  |
|          | 82             |          |          |  |               |   | Т        |  |              |  |
|          | 83             |          |          |  | П             |   |          |  |              |  |
|          | 84             | П        | $\vdash$ | $\vdash$   | $\vdash$      | П   |          | $\vdash$   |              | $\vdash$   |
|          | 85             |          |          | $\vdash$   | Н             | Н   | $\vdash$ | Н  |              |  |
|          | 86             | Н        |          | $\vdash$   |               | Н   | _        |  |              |  |
|          | 87             |          |          | H  | Н             | H   | $\vdash$ | _  |              | _  |
|          | 88             |          | -        | <del>                                     </del> | -             | $\vdash$  | $\vdash$ | $\vdash$   | -            | -  |
| $\vdash$ | 89             | -        | $\vdash$ | $\vdash$   | $\vdash$      | $\vdash$  |          | -  | -            |  |
| $\vdash$ | 90             | -        | -        | $\vdash$   | $\vdash$      | H   | $\vdash$ | ├─   | $\vdash$     | <del>                                     </del> |
| <b>—</b> | 91             | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$      | <u> </u>  | $\vdash$ | -  | $\vdash$     | $\vdash$   |
| <u> </u> | 92             | $\vdash$ |          | -  | -             | <del> </del>  |          | -  | <del> </del> | $\vdash$   |
| <u> </u> | 93             | ⊢        | -        | ├-   | -             | H   | ⊢        | $\vdash$   | $\vdash$     | $\vdash$   |
|          | 94             | $\vdash$ | $\vdash$ | $\vdash$   | <del> </del>  | $\vdash$  | $\vdash$ | $\vdash$   |              | $\vdash$   |
| $\vdash$ | 95             | H        | $\vdash$ | $\vdash$   | $\vdash$      | $\vdash$  | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$   |
| $\vdash$ | 96             | $\vdash$ |          | $\vdash$   | $\vdash$      | Н   | $\vdash$ | -  | $\vdash$     | -  |
| $\vdash$ | 97             | $\vdash$ | H        | $\vdash$   | <del> </del>  | $\vdash$  | $\vdash$ | $\vdash$   | $\vdash$     |  |
| -        | 98             | $\vdash$ | Н        | $\vdash$   | $\vdash$      | $\vdash$  | $\vdash$ | $\vdash$   | $\vdash$     | ⊢  |
|          | 99             | $\vdash$ | Н        | $\vdash$   | $\vdash$      | $\vdash$  | $\vdash$ | ├  | $\vdash$     | <del> </del>                                     |
| $\vdash$ | 100            | Н        | $\vdash$ | $\vdash$   | $\vdash$      | $\vdash$  | $\vdash$ | $\vdash$   | $\vdash$     | ├  |
|          | IUU            |          |          |  |               |   |          |  |              |  |

| Cla   | aim               | Date         |                    |  |          |              |  |              | $\neg$   |                 |
|-------|-------------------|--------------|--------------------|--|----------|--------------|--|--------------|----------|-----------------|
|       |                   |              |                    |  |          |              |  |              |          | П               |
| Final | Original          |              |                    |  |          |              |  |              |          |                 |
| 证     | O                 |              |                    |  |          |              |  |              |          |                 |
|       |                   |              |                    |  |          |              | <u> </u>   | _            | ļ        | Н               |
|       | 101<br>102<br>103 | _            | H                  | -  |          | H            | <u> </u>   | <u> </u>     | _        | Н               |
|       | 102               | ├            | H                  |  | _        | ⊢            | -  | $\vdash$     | ┡        | Н               |
|       | 103               | -            |                    | $\vdash$   | _        |              | $\vdash$   |              | <u> </u> | $\vdash$        |
|       | 104<br>105        |              | $\vdash$           | $\vdash$   |          |              | _  |              | <u> </u> | $\vdash$        |
|       | 106               |              |                    |  |          |              | _  |              |          |                 |
|       | 107               | $\vdash$     |                    |  |          |              |  |              |          |                 |
|       | 108               |              |                    |  |          |              |  |              |          |                 |
|       | 108<br>109<br>110 |              |                    |  |          |              |  |              |          |                 |
|       | 110               |              |                    |  |          |              |  |              |          |                 |
|       | 111               |              |                    |  |          |              | L  |              |          | Ш               |
|       | 112<br>113        | <u> </u>     |                    | L'   | <u> </u> | L            |  | <u> </u>     | _        | Ш               |
|       | 113               | L            | <u> </u>           | <u> </u>   | L        | L_           | <u> </u>   |              |          | Ш               |
|       | 114               | <u> </u>     | $\vdash$           | <u> </u>   |          | _            | _  |              |          | Щ               |
|       | 115<br>116        | <u> </u>     | <u> </u>           | <u> </u>   | $\vdash$ | <u> </u>     | <u> </u>   | 上            | <u> </u> | Н               |
|       | 116               | <del> </del> | $\vdash$           | ⊢  | Ь        |              | _  | $\vdash$     | _        | Н               |
| -     | 118               | $\vdash$     | $\vdash$           | -  | $\vdash$ |              | -  | -            | -        | Н               |
|       | 118<br>119        | <u> </u>     | H                  | -  |          |              | -  | -            |          | Н               |
|       | 120               |              |                    |  |          |              | $\vdash$   | -            |          | Н               |
|       | 121               | ┢─           | $\vdash$           | <u> </u>   | -        | _            | -  |              |          | Н               |
|       | 120<br>121<br>122 |              |                    | _  |          | <u> </u>     | _  |              |          |                 |
|       | 123               |              |                    | Г  |          |              |  |              |          |                 |
|       | 123<br>124<br>125 |              |                    |  |          |              |  |              |          |                 |
|       | 125               |              |                    |  |          |              |  |              |          |                 |
|       | 126<br>127<br>128 | L            |                    |  |          |              | _  | <u> </u>     |          |                 |
|       | 127               |              |                    | L  |          |              | <u> </u>   | <u> </u>     |          | Щ               |
|       | 128               | <u> </u>     |                    | _  |          |              | <u> </u>   | <u> </u>     |          | Ш               |
|       | 129<br>130<br>131 | -            | _                  | $\vdash$   |          |              | _  | _            |          | Ш               |
|       | 130               |              | $\vdash$           | H  |          | _            | $\vdash$   | <u> </u>     | _        | Н               |
|       | 132               | -            | $\vdash$           | Η-   | -        | -            | ┝  | H            | _        | $\vdash$        |
| -     | 133               | $\vdash$     | -                  | <del>                                     </del> | -        | <del> </del> | $\vdash$   | -            | <u> </u> | H               |
|       | 134               | $\vdash$     |                    | H  |          | -            | -  |              | -        | $\vdash \vdash$ |
|       | 134<br>135        | $\vdash$     | П                  |  |          |              | Т  |              |          | $\vdash$        |
|       | 136               |              |                    |  |          |              |  | Г            |          |                 |
|       | 137<br>138        |              |                    |  |          |              |  |              |          |                 |
|       | 138               |              |                    |  |          |              |  |              |          |                 |
|       | 139               |              |                    |  |          |              |  |              |          | Ш               |
|       | 140               | L_           |                    |  |          | <u> </u>     | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | L            | ļ        | Ц               |
|       | 141               | <u> </u>     | $ldsymbol{\sqcup}$ | _  | <u> </u> | <u> </u>     | <u>L</u>   | L            | <u> </u> | Ц               |
|       | 142               | ļ            | L                  | <u> </u>   |          | <u> </u>     | <u> </u>   | L            | ļ        | Ы               |
|       | 143               | $\vdash$     | $\vdash$           | <u> </u>   | <u> </u> |              | <u> </u>   | $\vdash$     | $\vdash$ | Н               |
|       | 144               | $\vdash$     | $\vdash$           | H  | $\vdash$ | ⊢            | $\vdash$   | $\vdash$     | _        | Н               |
|       | 145<br>146        | ├            | $\vdash$           | $\vdash$   | -        | $\vdash$     | -  | <del> </del> | L        | $\vdash$        |
| _     | 147               | $\vdash$     | $\vdash$           | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$ | ${\mathbb H}$   |
| -     | 148               | $\vdash$     | H                  | H  | -        | ┢            | <del>  -</del>   | -            |          | H               |
|       | 149               | $\vdash$     | Н                  |  |          | $\vdash$     | Ι-   | Н            |          | Н               |
|       | 150               | Г            |                    |  |          | Г            | П  |              |          | П               |
|       |                   | <del></del>  | •                  |  | _        |              |  |              |          | لــــا          |